

VICINITY MAP NOT TO SCALE

_EGEND

EXISTING CONTOUR LINE

-21 ---- PROPOSED CONTOUR LINE

EXISTING OVERHEAD LINE

EXISTING TOP OF ASPHALT ELEVATION

EXISTING SPOT ELEVATION

→ 19.08′ TC 18.41′ FL EXISTING TOP OF CURB ELEVATION EXISTING FLOWLINE ELEVATION

PROPOSED LANDSCAPE APEA



PROPOSED SPOT ELEVATION TOP OF ASPHALT



PROPOSED TOP OF CURB ELEVATION PROPOSED FLOWLINE ELEVATION

PROPOSED DIRECTION OF FLOW

NOTE:

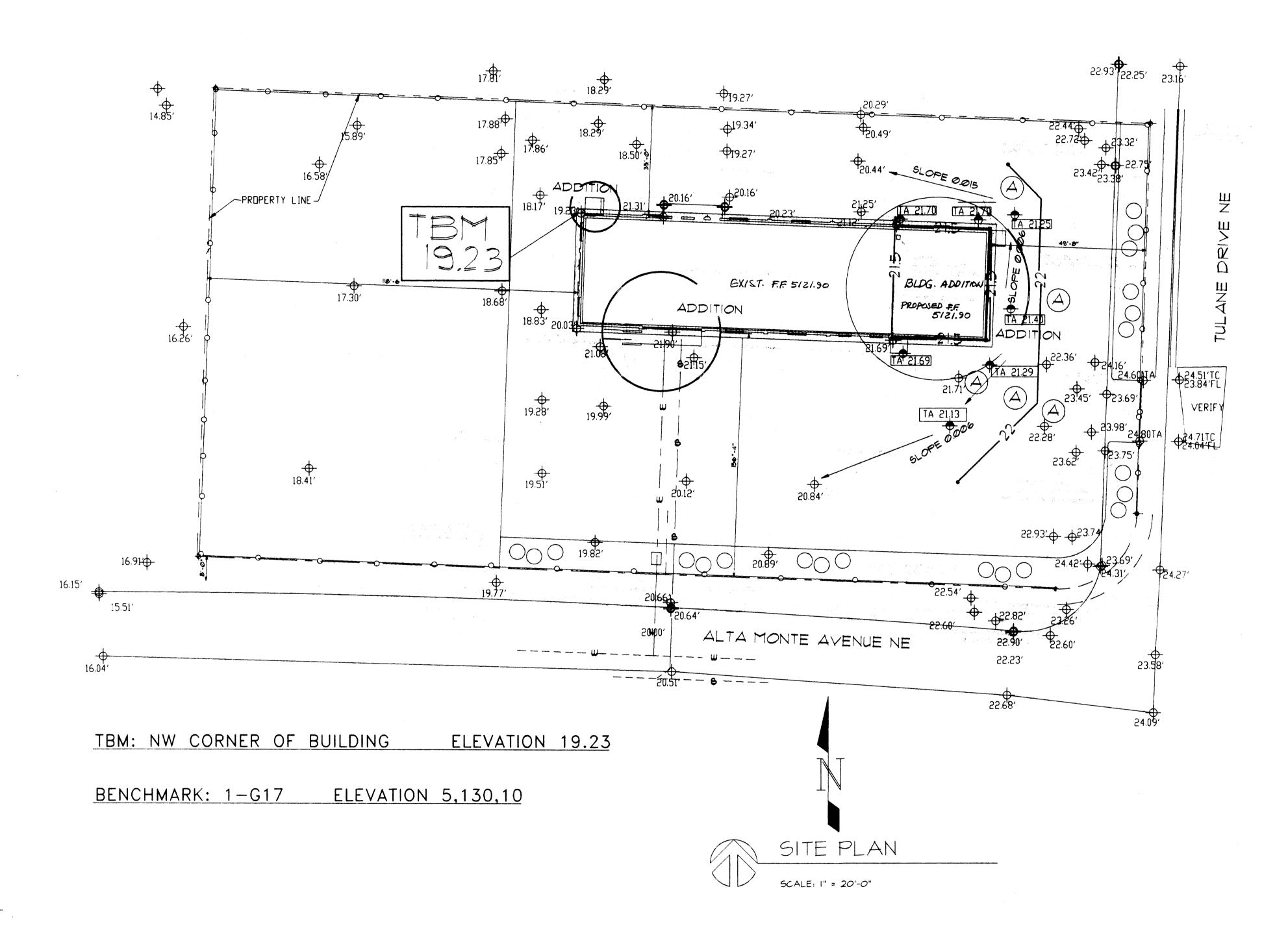
- 1. THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.
- 2. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON MAPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THIS DRAWING, PRIOR TO ANY EXCAVATIONS.
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 4. CONTRACTOR IS RESPONSIBLE FOR KEEPING RUN-OFF ON SITE DURING CONSTRUCTION AND CLEANING UP SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY AND ADJOINING PROPERTIES AFTER CONSTRUCTION.

KEYED NOTES:

REMOVE AND REPLACE ASPHALT PAVEMENT AS NECESSARY FOR SMOOTH RIDING TRANSITION.

A CHILD'S PLAYGROUND

DRAINAGE & GRADING PLAN 3305 ALTAMONTE AVENUE NE ALBUQUERQUE, NEW MEXICO



DRAINAGE AND GRADING PLAN FOR A CHILD'S PLAYGROUND

LEGAL DESCRIPTION: LOT BA AND 9A INDIAN ACRES SUBDIVISION

ADDRESS: NW corner, Tulane and Altamonte NE, (3305 Altamonte NE)

FLOODPLAIN INFORMATION: The property is located in Zone X, areas outside the 500-year flood, according to the Floodway Boundary and Floodway Map of the City of Albuquerque, New Mexico, Community Panel 35001C0351 D, effective September 20, 1996.

EXISTING CONDITIONS: The subject property contains an area of approximately one acre. An existing building which is presently used as a day—care center, has asphalt—paved parking lot in front (south) and asphalt—paved drive areas on its north and east sides. About a third of the property is unpaved.

The property is bounded on the south by Alta Monte Ave. (paved, curb and gutter and sidewalk); on the west by existing apartments, on the north by existing residences, and on the east by Tulane Ave. (paved, curb and gutter, sidewalk).

OFFSITE RUN-OFF: The site receives no offsite flows.

PROPOSED IMPROVEMENTS: A building with a roof area of approximately 1,080 square feet will be built. The impervious area (1,080 SF of roof) that will be created by the proposed building addition will replace an equal amount of impervious area (1,080 SF of asphalt). An additional benefit of the proposed improvement is the creation of landscape strips which will decrease the site runoff rate and volume.

CALCULATIONS:

Zone Atlas G-16

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Existing Conditions:
        Land Treatment A = 0
       Land Treatment B = 0
      Land Treatment C = 17,715 SF = 0.41 Ac.
Land Treatment D = 27,225 SF = 0.63 Ac.
Proposed Improvement:
```

Land Treatment A = 0Land Treatment B = 4,000 SF = 0.10 Ac. Land Treatment C = 17,715 SF = 0.41 Ac. Land Treatment D = 23,225 SF = 0.53 Ac.

Zone 2 (From DPM 22.2, page A-1)

Existing Condition Peak Discharge, 100-year: C = 3.14, D = 4.70 (DPM 22.2, A-9) $Q_{100} = (0.41 \times 3.14) + (0.63 \times 4.70) = 4.24 \text{ cfs}$

Volume of Runoff, Excess Precipitation

100-year: C = 1.13, D = 2.12 (from DPM 22.2, A-7) $V_{100} = (0.41 \times 1.13 \times 43,560/12) + (0.63 \times 2.12 \times 43,560/12) = 6,529 \text{ cf}$ Proposed Improvement:

Peak Discharge, 100-year Land Treatment B, 100-year: 2.28 cfs Land Treatment C, 100-year: 3.14 cfs

Land Treatment D, 100-year: 4.70 cfs $Q_{00} = (0.10 \times 2.28) + (0.41 \times 3.14) + (0.53 \times 4.70) = 3.99 \text{ cfs}$ Volume of Runoff, 100-year:

Excess Precipitation, Land Treatment B = 0.78Excess Precipitation, Land Treatment C = 1.13Excess Precipitation, Land Treatment D = 2.12 $V_{100} = (0.10 \times 0.78 \times 43,560/12) + (0.41 \times 1.13 \times 43,560/12) +$

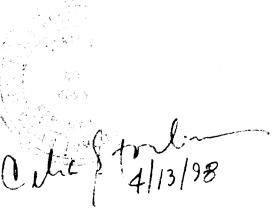
 $(0.53 \times 2.12 \times 43,560/12) = 6,015 \text{ cf}$

Discharge, $Q_{100} = 4.24 - 3.99 = 0.25$ cfs (decrease) Volume, $V_{100} = 6.529 - 6.015 = 514$ cf (decrease)

EROSION CONTROL: Water, if any, from activities during construction and/or from rain will be temporarily ponded on site to prevent the spread of silt.

<u>CONCLUSION</u>: The grading and drainage plan for the proposed construction on the subject property will not have any adverse impact on or will be adversely affected by the existing drainage from the surrounding areas.

A CHILD'S PLAYGROUND 3305 ALTAMONTE AVENUE NE DRAINAGE & GRADING PLAN

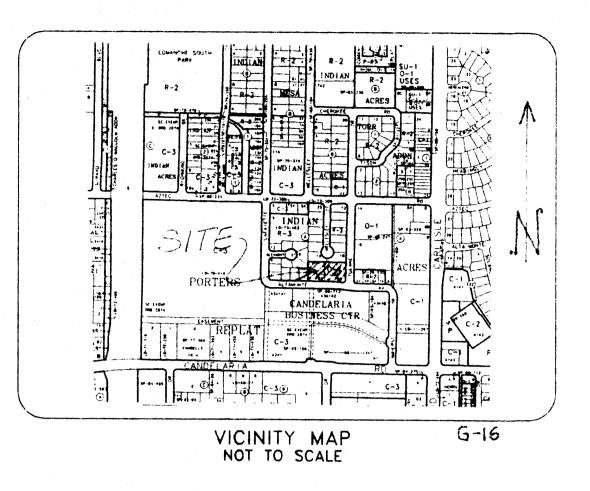




RHOMBUS P.A., INC.

FACILITIES ENGINEERS & ENVIRONMENTAL CONSULTANTS 2620 San Mateo NE SUITE B Albuquerque, NM 87110

TEL. (505) 881-6690 FAX (505) 881-6896



LEGEND

EXISTING CONTOUR LINE

- PROPOSED CONTOUR LINE

EXISTING OVERHEAD LINE

EXISTING SPOT ELEVATION

EXISTING TOP OF CURB ELEVATION EXISTING FLOWLINE ELEVATION



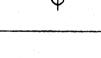
PROPOSED LANDSCAPE AREA



PROPOSED SPOT ELEVATION TOP OF ASPHALT



PROPOSED TOP OF CURB ELEVATION PROPOSED FLOWLINE ELEVATION



PROPOSED DIRECTION OF FLOW AS BUILT FROT BLEVATION

NOTE:

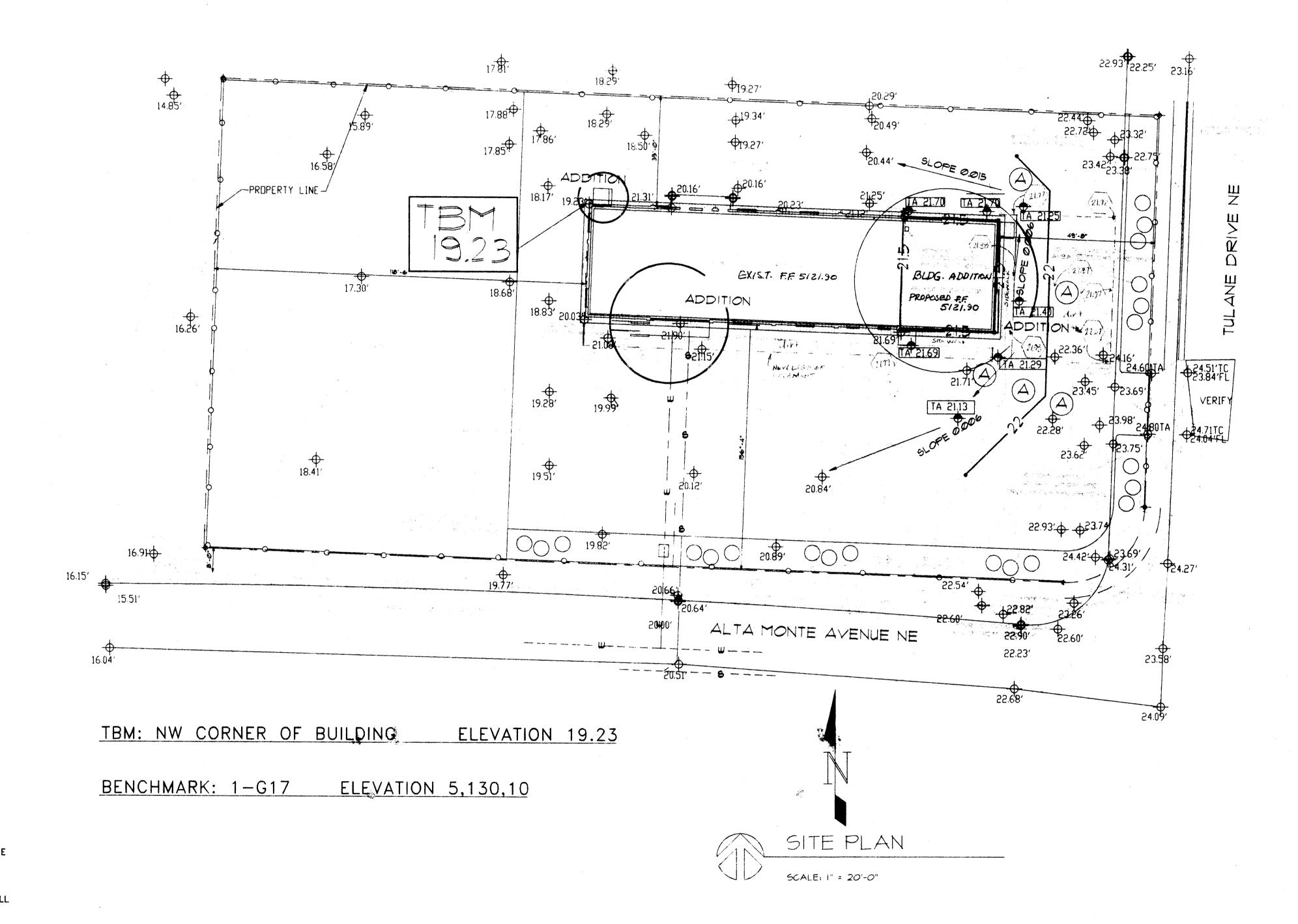
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REMOVE AND REPLACE ASPHALT PAVEMENT AS NECESSARY FOR SMOOTH RIDING TRANSITION.

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DRAINAGE & GRADING PLAN 3305 ALTAMONTE AVENUE NE ALBUQUERQUE, NEW MEXICO



DRAINAGE AND GRADING PLAN FOR A CHILD'S PLAYGROUND

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Zone Atlas G-16

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PROPOSED IMPROVEMENTS: A building with a roof area of approximately 1,080 square feet will be built. The impervious area (1,080 SF of roof) that will be created by the proposed building addition will replace an equal amount of impervious area (1,080 SF of asphalt). An additional benefit of the proposed improvement is the creation of landscape strips which will decrease the site runoff rate and volume. CALCULATIONS:

Existing Conditions:

Land Treatment A = 0Land Treatment B = 0Land Treatment C = 17,715 SF = 0.41 Ac. Land Treatment D = 27,225 SF = 0.63 Ac. TOTAL 1.04 Acres

Proposed Improvement:

Land Treatment A = 0Land Treatment B = 4,000 SF = 0.10 Ac. Land Treatment C = 17,715 SF = 0.41 Ac. Land Treatment D = 23,225 SF = 0.53 Ac.

Zone 2 (From DPM 22.2, page A-1)

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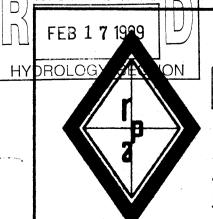
to prevent the spread of silt.

Discharge, $Q_{100} = 4.24 - 3.99 = 0.25$ cfs (decrease) = 6,529 - 6,015 = 514 cf (decrease)

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A CHILD'S PLAYGROUND 3305 ALTAMONTE AVENUE NE DRAINAGE & GRADING PLAN



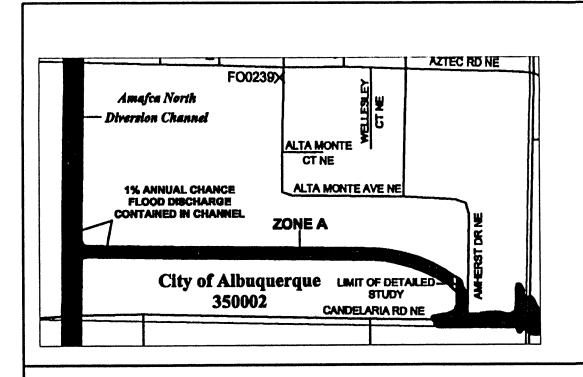
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ENGINEER'S CERTIFICATION:

! HEREBY CERTIFY THAT THE SUBJECT FACILITY WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE AND GRADING PLAN.



FIRM MAP PANEL # 351 F

CALCULATIONS

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM)
REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE, ADOPTED BY THE COUNTY OF BERNALILLO DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds" VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA

P100 = 2.35 Inches, Zone 2 Time of Concentration, TC = 10 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

LXISTING CONDITIONS

71% B (SAND), 29% HARDPAN 'C',

LOT AREA = 0.43 ACRES, WHERE EXCESS PRECIP. 'W' =0.88 In. [0.35] PEAK DISCHARGE, Q100 = 1.1 CFS [0.6], WHERE UNIT PEAK DISCHARGE = 2.5 CFS/AC. [1.3] THEREFORE: VOLUME 100 = 1374 CF [546]

DEVELOPED CONDITIONS (Includes Paved Parkina) DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE

FOR STUDY AREA LAND TREATM'I Q Peak 1.56[0.38] 0.53[0.13] 0.00 Ac.(0%) UNDEVELOPED 2.28[0.95] 0.78[0.28] LANDSCAPING/Depress 0.15 Ac.(35%) 3.14[1.71] 1.13[0.52] GRAVEL & COMPACTED SOIL 0.05 Ac.(12%) ROOF - PAVEMENT 0.23 Ac.(53%) 4.70[3.14] 2.12[1.34]

THEREFORE: E Weighted $= 1.53 \ln[0.87] &$

VOLUME 100 = 2388 CF Q10 =1.0 CFS VOLUME 10 = 1358 CF

DOWNSTREAM ANALYSIS

THE INCREASE OF RUNOFF RATE IS CONSIDERED MINIMAL FROM THE EXISTING CONDITIONS (0.5 CFS); THE DIFFERENCE WILL BE ROUTED INTO DEPRESSED LANDSCAPE AREA(S), THE REMAINING TWO—THIRDS OR 1 CFS WILL FREE— DISCHARGE TO THE STREET.

GRADING & DRAINAGE PLAN

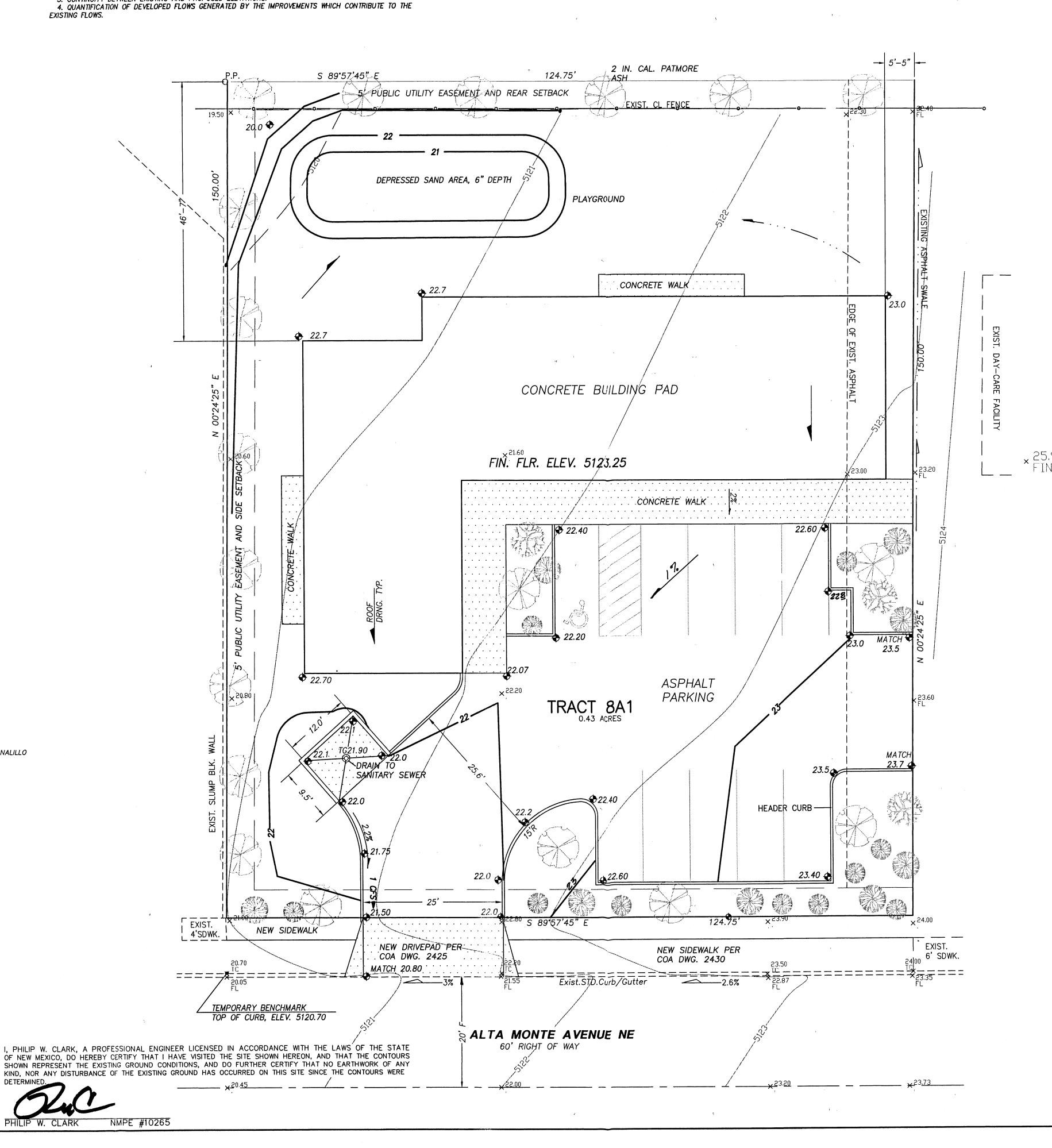
THE PROPOSED DAY-CARE EXPANSION PROJECT IS LOCATED IN THE CANDELARIA—125 COMMERCIAL AREA OF THE CITY OF ALBUQUERQUE. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND IMPROVEMENTS, AND EXISTING STREET.

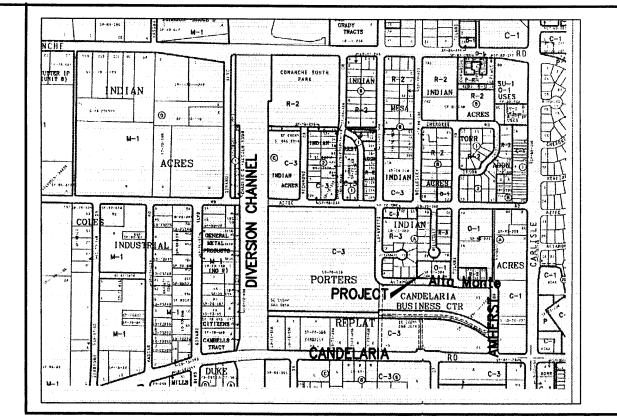
2. PROPOSED IMPROVEMENTS: A 4000 SF BUILDING, PRIVATE ASPHALT DRIVEWAY AND PARKING, NEW GRADE FLEVATIONS, DRAINAGE, AND LANDSCAPING COMPLIANCE IMPROVEMENTS/UPGRADING. 3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.

PRESENTLY, THE SITE IS ESTABLISHED AND USED AS A DEVELOPED ANCILLARY PLAYGROUND AREA FOR THE EXISTING FACILITY TO THE EAST. THE PLAYGROUND CURRENTLY IS 2/3 GRAVEL SURFACING LOCATED IN THE SOUTHERN AREA. THE SITE IS BOUNDED BY DEVELOPED MULTI-FAMILY ON THE NORTH /COMMERCIAL PROPERTY TO THE WEST. ALTA MONTE AVE. ON THE SOUTH IS A 40 FEET WIDE PAVED CITY MAINTAINED LOCAL STREET WITH SIDEWALK. THE SITE TERRAIN SLOPES FROM EAST TO NORTHWEST AT 5%

THE SITE IS NOT WITHIN OR ADJACENT TO A DESIGNATED FEMA FLOOD HAZARD ZONE. DEVELOPED LOT RUNOFF WILL BE PERMITTED TO DRAIN TO THE STREET. FREE DISCHARGE OF PROJECT RUNOFF IS ACCEPTABLE SINCE DOWNSTREAM DRAINAGE FACILITIES EXIST. A PORTION OF SITE RUNOFF IS ROUTED THROUGH PROPOSED LANDSCAPING AS POINT RAINFALL,SEE CALCULATIONS.





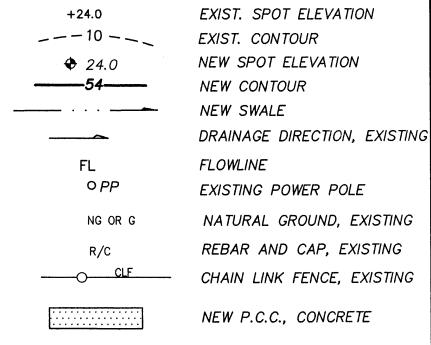


VICINITY MAP ZONE G-16

NOTES

- 1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 7TH EDITION W/ UPDATES.
- 2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
- 5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
- 6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX.
- 7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1.
- 8. NEW ASPHALT PAVEMENT SHALL CONSIST OF 3" ASPHALT CONCRETE OVER 6" AGGREGATE BASE COURSE ON 8" COMPACTED SUBGRADE, 95% PROCTOR, ASTM D-1557

EGEND



TOP OF GRATE (W/ ELEV.)

PROJECT DATA

LEGAL DESCRIPTION

TRACT 8A-1, BLOCK A, INDIAN ACRES SUBDIVISION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO



TOP OF CURB AT THE PROJECTION OF PROJECT SOUTHWEST CORNER SEE PLAN, ELEVATION = 5120.70, AS TIED FROM ACS CONTROL MONUMENT P-225 (ELEV. 5102.67) LOCATED @ THE SW QUADRANT OF LAFAYETTE/AZTEC TOPOGRAPHIC DESIGN SURVEY DATA

COMPILED BY CLARK CONSULTING ENGINEERS, FEBRUARY 2007



	6	Clark	C	onsulting	Engin	eers
				Ryan Road New Mexico		
le:	(505) 281-	2444			Fax:	(505) 28

R. 8A-1 OF BLOCK A, INDIAN ACRES REVISION ALBUQUERQUE, NEW MÉXICO 3301 ALTA MONTE AVENUE, NE Grading & Drainage

DESIGNED BY: PWC | DRAWN BY: CCE | JOB #: WEAVER_VASS CHECKED BY: PWC DATE: 1/12/07

DESIGN CRITERIA

3. Wood

1. All work shall conform to the 2003 International Building Code.

Roof load 20 psf
Floor load 40 psf
Seismic zone 2b requirements
Wind loading 75 mph, exposure C

- 2. Cast in place concrete:
 a. Compressive strength of cast in place concrete
- 3000 psi at 28 days

 b. Reinforcing steel shall be ASTM A-615 Grade 60 #5
 and larger, Grade 40 #4 and smaller.
- a. Unless otherwise noted on drawings lumber shall be No. 2 Ponderosa Pine with allowable repetitive use fiber bending stress of 975 psi, single use fiber bending stress of 850 psi, and elastic modulus of 1500000 psi.
- b. Where Hem-Fir is specified on plans ot shall be No. 1 with allowable repetitive use fiber bending stress of 1200 psi, single use fiber bending stress of 1200 psi, and elastic modulus of 1500000 psi.
- c. Micro-Lam lumber shall satisfy the following design values:

 Bending (Fb) = 2600 psi

 Horizontal shear (Fy) = 285 psi

 Modulus of elasticity (E) = 1800000 psi

 Compression perpendicular to grain = 650 psi

 Compression parallel to grain (Fc) = 2460 psi

Drilling or notching of Micro-Lam lumber is not allowed.

4. Design Soil bearing pressure 1500 psf with footings placed on natural ground and slab placed on engineered compacted fill.

CONSTRUCTION CRITERIA

3 inch

- Lap reinforcing bars 32 diameters unless otherwise noted
 Construction joints location and type shall have prior
- approval by Engineer.

 3. Fill material shall consist of soils that conform to the

following characteristics:
Sieve Size Polyse (Square openings)

for P.I. and D-1557 for density.

Percent Passing by weight 100

No. 4 50-100

No. 200 10-40

The plasticity index of the material shall not exceed 10.

Testing shall be in conformance with ASTM D 423 and 424

4. Where slabs are placed on fill the native soil shall be scarified to a minimum depth of 12 inches, watered as necessary to bring the moisture content as close as possible to optimum moisture content, and compacted to 95% of maximum density. Fill shall be spread in loose depth layers not exceeding 8 in. watered and compacted. Moisture content at the time of compaction shall be 2% below optimum moisture or higher. A minimum density of 95% of maximum density shall be obtained. Optimum moisture content and maximum density for each

soil type shall be determined in accordance with ASTM D 1557.

5. Contractor is responsible for any temporary bracing required

to hold structural elements in place until work is complete.

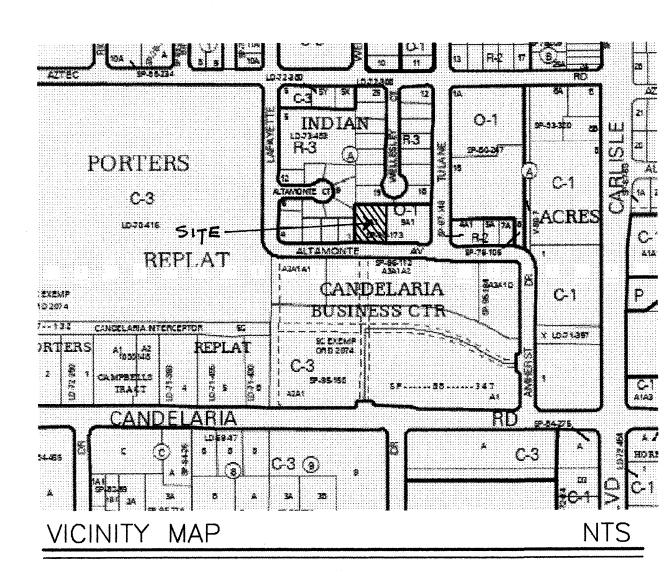
6. Contractor shall coordinate slab openings with Mechanical and Electrical drawings. (Mechanical and Electrical openings are not shown on Structural drawings.)

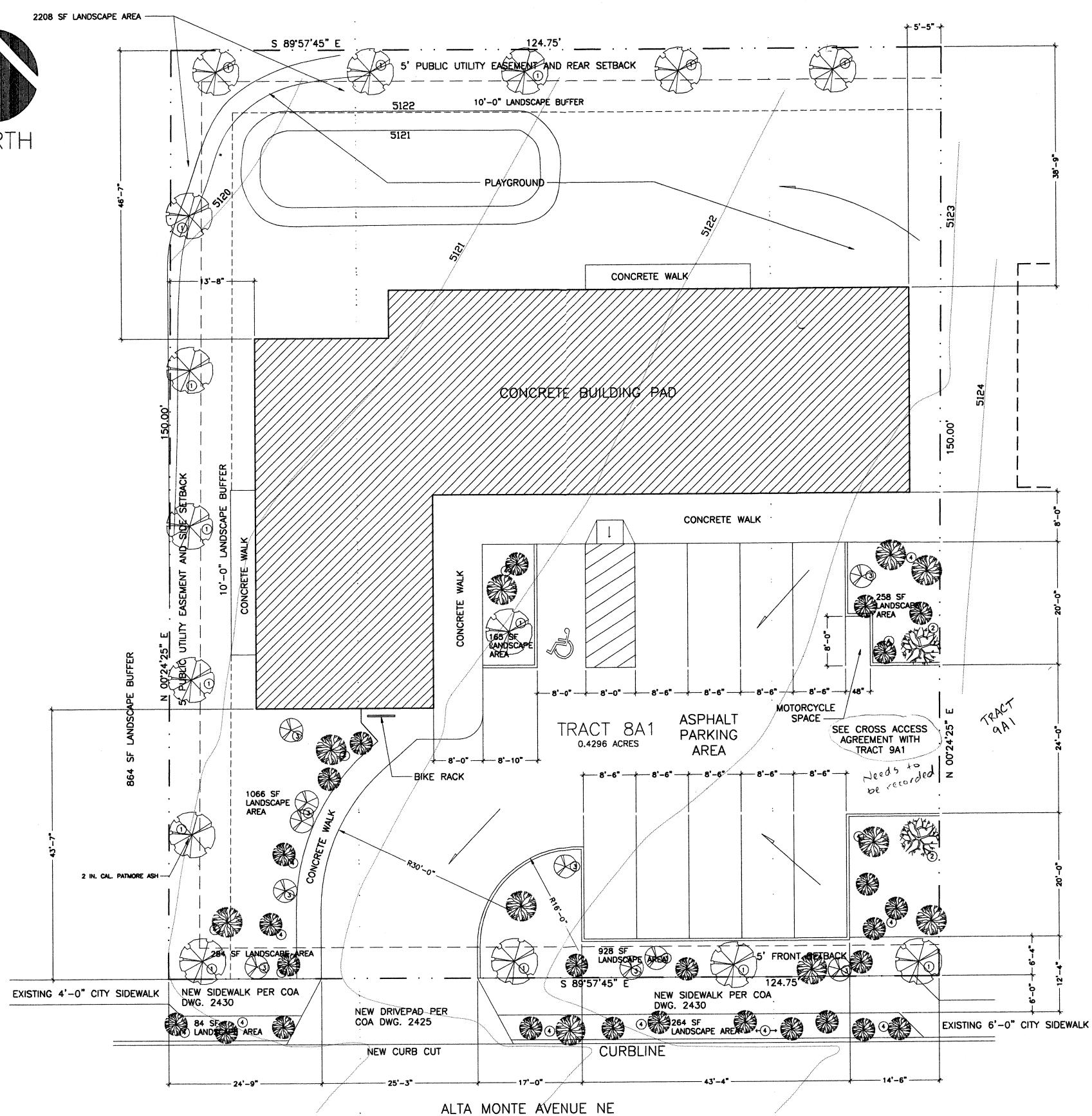
7. All conditions shown on the plan shall be field verified by the contractor. If discrepancies exist they shall be brought to the attention of the Architect and Engineer before work proceeds.

LANDSCAPE NOTES

DESIGN CRITERIA

- Landscape and irrigation system maintenance shall be the responsibilty of the owner.
- Landscape shall be watered by a complete underground irrigation drip system operated by automatic controller.
- 3. Plantings shall acheive a minimum 75% live ground cover at maturity.





60.00' RIGHT OF WAY O'-O"
TRAFFIC CIRCULATION LAYOUT SITE - PLAN APPROVED 1/6/07 Signed Dat**e** LANDSCAPE AREA REQUIRED: LANDSCAPE SCHEDULE GROSS SITE AREA = 18,713 SF SIZE MARK DESCRIPTION BUILDING AREA = 4322 SF 1 PATMORE ASH RIGHT-OF WAY = 328 SF 2" CALIPER NET SITE AREA = 14,063 SF 15 GALLON BRADFORD PEAR 15% OF NET AREA = 2109 SF REQUIRED

3 DESERT WILLOW

BUFFALO JUNIPER

LANDSCAPE AREA PROVIDED: 4973 SF

VEGETATIVE GROUND COVER REQUIRED: 1582 SF

5 GALLON

1 GALLON

) R	Α	W		Ν	G			N	D	ᆫ	X		
A	1	SITE	E P	LAN	1										
A	1A	GR/	ADIN	IG/	DF	1IAS	NAG	E	PL	AN					
Α	2	FOL	JND	ATI	ON	P	LAN	1/[)E	ΓΑΙ	.S				
A	3	FLC	OR	PI	_AN	1									
Α	4	FRA	MIN	1G	PL	AN	/SE	C	10	NS	/DI	ETA	ILS	3	
Α	5	REF	LE(CTE	D	CE	ILIN	G	Pl	AN	/R	00	F	PLA	N
Α	6	ELE	VA1	101	18										
P	1	PLU	JME	INC	; F) <u> </u>	N								
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E	1	ELE	CTI	RICA	٩L	Pl	AN								

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BUILDING DATA	
PROJECT: DAY CARE CENTER	
3301 ALTA MONTE AVENUE	
ALBUQUERQUE, NEW MEXICO) 87107
OWNED. COZEAST LLC	
OWNER: GOZFAST LLC 604 CEDAR HILL ROAD NE	-
ALBUQUERQUE, NEW MEXIC	
ARCHITECT: J. KORY BAKER ARCHITE	CT
P.O. BOX 254	
ESTANCIA, NEW MEXICO	87016
	0 10 7
ZONE ATLAS MAP:	G-16-Z
ZONING CLASSIFICATION:	0-1
Editing Chassi Ioanon.	
BUILDING TYPE: EDUCATIONAL -	DAY CARE
CONSTRUCTION TYPE:	VN
OCCUPANT LOAD:	
CLASSROOM #1 1120 SF	$\frac{1}{20} = 56$
CLASSROOM #2 1120 SF	$\frac{1}{20} = 56$
CLASSROOM #3 920 SF	$\frac{1}{20} = 46$
CLASSROOM #4 492 SF STORAGE/MECHANICAL 44 SF,	
STURAGE/ MECHANICAL 44 SF/	- JUU = 1
TOTAL OCCUPAN	NCY = 184
OCCUPANCY GROUP: GROUP E -	DAY CARE
NUMBER OF ELOOPS	1 FLOOR
NUMBER OF FLOORS:	1 FLOOR
GROSS SQUARE FOOTAGE: 4	322 SQ.FT.
GIVOS SWOMIL I COTAGE. 4	ULL JWIII.
ZONING ANALYSIS:	PARKING
PARKING REQUIRED:	
2 SPACES PLUS 1 SPA	
PER 500 SF NET LEAS	
NET LEASABLE AREA =	
3655/500 = 8 + 2 =	= 10
REQUIRED PARKING =	10 SPACES
	10 SPACES
FINOVIDED FARRING -	IU JI AULU
REQUIRED HC PARKING =	1 SPACE
PROVIDED HC PARKING =	
	CCESSIBLE

C O D E S & R E S T R I C T I O N S

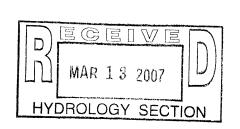
THE BUILDING SHALL BE CONSTRUCTED IN STRICT
ACCORDANCE WITH THE FOLLOWING:

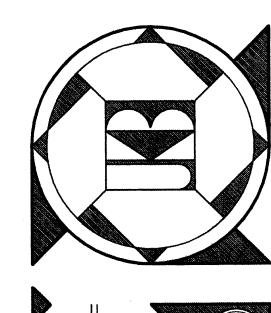
• 2003 INTERNATIONAL BUILDING CODE

• ALL APPLICABLE CODES AND REGULATIONS
OF BERNALILLO COUNTY, AND THE
STATE OF NEW MEXICO

LEGAL DESCRIPTION

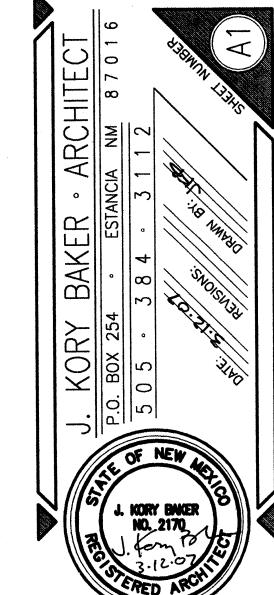
TRACT 8A1, PLAT OF TRACTS 8A1 AND 9A1,
TRACT 6, BLOCK A, INDIAN ACRES SUBDIVISION





ENTER S

CARE



DESIGN CRITERIA

All work shall conform to the 2003 International Building Code.
 Live loads:

Roof load 20 psf
Floor load 40 psf
Seismic zone 2b requirements
Wind loading 75 mph, exposure C

2. Cast in place concrete:

- a. Compressive strength of cast in place concrete 3000 psi at 28 days
- b. Reinforcing steel shall be ASTM A-615 Grade 60 #5 and larger, Grade 40 #4 and smaller.
- a. Unless otherwise noted on drawings lumber shall be
 No. 2 Ponderosa Pine with allowable repetitive use fiber bending stress of 975 psi, single use fiber bending stress of 850 psi, and elastic modulus of 1500000 psi.
 b. Where Hem-Fir is specified on plans of shall be No. 1
- with allowable repetitive use fiber bending stress of 1200 psi, single use fiber bending stress of 1200 psi, and elastic modulus of 1500000 psi.

 c. Micro-Lam lumber shall satisfy the following design values:

 Bending (Fb) = 2600 psi

 Horizontal shear (Fy) = 285 psi

Modulus of elasticity (E) = 1800000 psi

Compression perpendicular to grain = 650 psi Compression parallel to grain (Fc) = 2460 psi Drilling or notching of Micro-Lam lumber

4. Design Soil bearing pressure 1500 psf with footings placed on natural ground and slab placed on engineered compacted fill.

CONSTRUCTION CRITERIA

Lap reinforcing bars 32 diameters unless otherwise noted.
 Construction joints location and type shall have prior approval by Engineer.

Percent Passing

by weight

Fill material shall consist of soils that conform to the following characteristics:

Sieve Size
(Square openings)
3 inch
No. 4

No. 4 50-100 No. 200 10-40

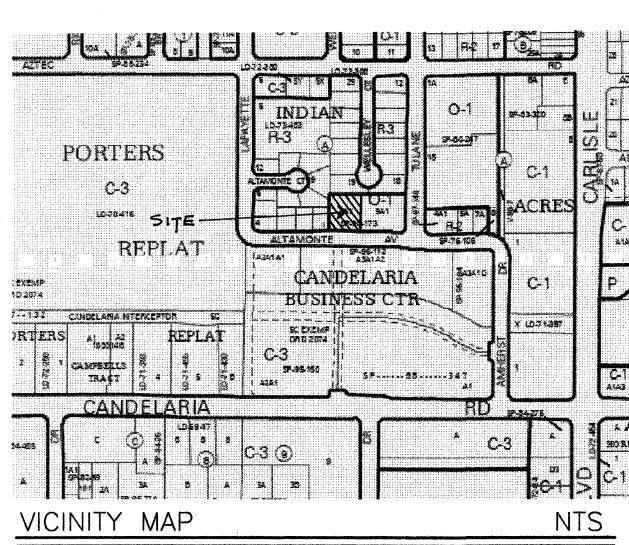
The plasticity index of the material shall not exceed 10. Testing shall be in conformance with ASTM D 423 and 424 for P.I. and D-1557 for density.

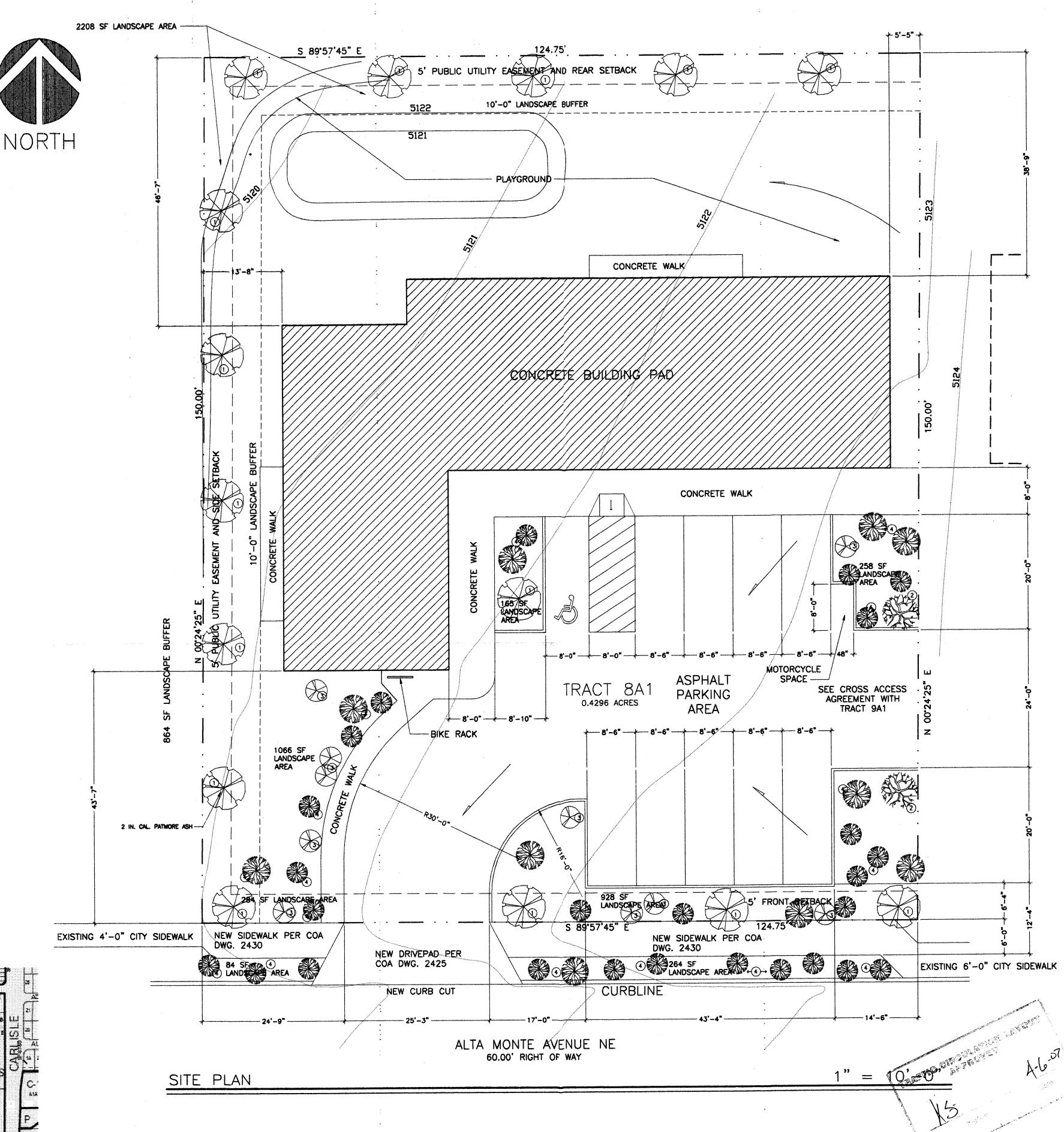
- 4. Where slabs are placed on fill the native soil shall be scarified to a minimum depth of 12 inches, watered as necessary to bring the moisture content as close as possible to optimum moisture content, and compacted to 95% of maximum density. Fill shall be spread in loose depth layers not exceeding 8 in. watered and compacted. Moisture content at the time of compaction shall be 2% below optimum moisture or higher. A minimum density of 95% of maximum density shall be obtained. Optimum moisture content and maximum density for each soil type shall be determined in accordance with ASTM D 1557.
- 5. Contractor is responsible for any temporary bracing required to hold structural elements in place until work is complete.
- Contractor shall coordinate slab openings with Mechanical and Electrical drawings. (Mechanical and Electrical openings are not shown on Structural drawings.)
- 7. All conditions shown on the plan shall be field verified by the contractor. If discrepancies exist they shall be brought to the attention of the Architect and Engineer before work proceeds.

LANDSCAPE NOTES

DESIGN CRITERIA

- Landscape and irrigation system maintenance shall be the responsibilty of the owner.
- Landscape shall be watered by a complete underground irrigation drip system operated by automatic controller.
- Plantings shall acheive a minimum 75% live ground cover at maturity.





LANDSCAPE SCHEDULE

PATMORE ASH

2 BRADFORD PEAR

3 DESERT WILLOW

4 BUFFALO JUNIPER

MARK DESCRIPTION

SIZE

2" CALIPER

15 GALLON

5 GALLON

1 GALLON

LANDSCAPE AREA REQUIRED:

GROSS SITE AREA = 18,713 SI

BUILDING AREA = 4322 SF

RIGHT-OFWAY = 328SF

NET SITE AREA = 14,063 SF

15% OF NET AREA = 2109 SF REQUIRED

VEGETATIVE GROUND COVER REQUIRED: 1582 SF

LANDSCAPE AREA PROVIDED: 4973 SF

Α	1	SITE	. P	LAN	1									
Α	1A	GRA	DIN	G/	DR	MA	NAGE	_ 1	PL	AN				
Α	2	FOL	ND	ATI	ON	Р	LAN	/0)E1	AIL	.S			
Α	3	FLO	OR	Pl	_AN	1								
Α	4	FRA	MIN	IG	PL	AN	/SE	CT	10	NS,	/DI	ETA	VIL:	S
Α	5	REF	LEC	TE	D	CE	ILIN	G	PL	AN	/R	00	F	PLAN
Α	6	ELE	VAT	101	15									
					····									
P	1	PLU	MB	INC	F		N							
M	1	MEC	HA	NIC	AL	P	LAN							
E	1	ELE	CTE	210	Δ1	PI	ΔNI							

BUILDING DATA

GOZFAST LLC

3301 ALTA MONTE AVENUE NE

604 CEDAR HILL ROAD NE

ALBUQUERQUE, NEW MEXICO 87107

ALBUQUERQUE, NEW MEXICO 87122

PROJECT: DAY CARE CENTER

ARCHITECT: J. KORY BAKE	
P.O. BOX 254	
ESTANCIA, NEW	V MEXICO 87016
ZONE ATLAS MAP:	G-16-Z
ZUNE ATLAS MAP:	3-10-2
ZONING CLASSIFICATION:	0-1
BUILDING TYPE: EDUCA	ATIONAL - DAY CARE
CONCEDUCTION TYPE:	VN
CONSTRUCTION TYPE:	VIN
OCCUPANT LOAD:	
CLASSROOM #1	1120 SF/20 = 56
	1120 SF/20 = 56
	920 SF/20 = 46
	492 SF/20 = 25
CLASSROOM #4	
STORAGE/MECHANICAL	44 SF/300 = 1
TOTAL	OCCUPANCY = 184
OCCUPANOV ODOUB	
OCCUPANCY GROUP: GF	ROUP E - DAY CARE
NUMBER OF FLOORS:	1 FLOOR
GROSS SQUARE FOOTAGE:	4322 SQ.FT.
ONOSS SQUARE TOOTAGE.	TO22 OQ1 1.
ZONING ANALYSIS:	PARKING
PARKING REQUIRED:	
2 SPACES PL	US 1 SPACE
	NET LEASABLE AREA
NET LEASABL	E AREA = 3655 SF
3655/500 =	8 + 2 = 10
	DUNA 10 001000
REQUIRED PA	ARKING = 10 SPACES
PROVIDED PA	ARKING = 10 SPACES
DEVILIDED HU E	PARKING = 1 SPACE
PROVIDED HC F	
	VAN ACCESSIBLE

C O D E S & R E S T R I C T I O N S

THE BUILDING SHALL BE CONSTRUCTED IN STRICT

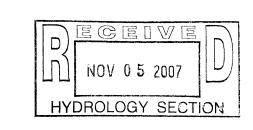
ACCORDANCE WITH THE FOLLOWING:

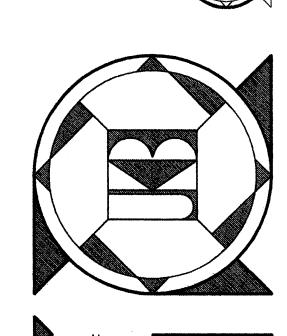
• 2003 INTERNATIONAL BUILDING CODE

ALL APPLICABLE CODES AND REGULATIONS
 OF BERNALILLO COUNTY, AND THE
 STATE OF NEW MEXICO

LEGAL DESCRIPTION

TRACT 8A1, PLAT OF TRACTS 8A1 AND 9A1, TRACT 6, BLOCK A, INDIAN ACRES SUBDIVISION

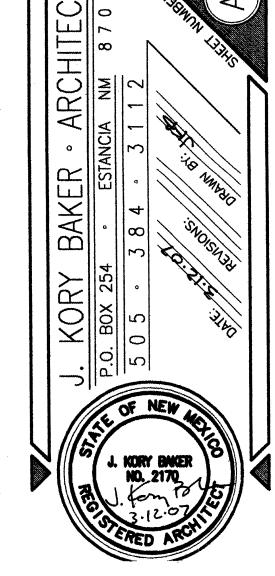


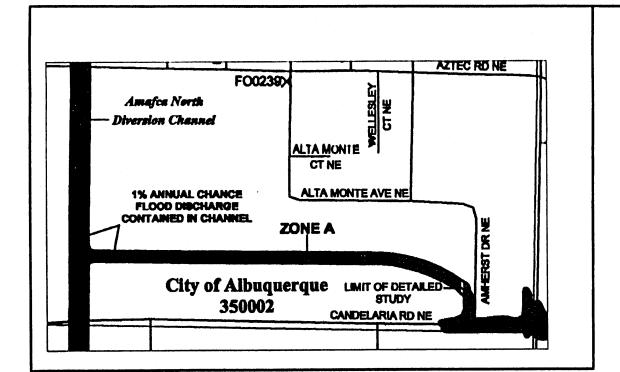


CENTER

CARE

DAY





FIRM MAP PANEL # 351 F

CALCULATIONS

HYDROLOGIC METHODS PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM)
REVISED JANUARY 1993 FOR CITY OF ALBUQUERQUE, ADOPTED BY THE COUNTY OF BERNALILLO
DISCHARGE RATE: Q=QPEAK x AREA..."Peak Discharge Rates For Small Watersheds" VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA

P100 = 2.35 Inches, Zone 2 Time of Concentration, TC = 10 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES EXISTING CONDITIONS

EXISTING CONDITIONS

71% B (SAND), 29% HARDPAN 'C',

LOT AREA = 0.43 ACRES, WHERE EXCESS PRECIP. 'W' =0.88 In. [0.35] PEAK DISCHARGE, Q100 = 1.1 CFS [0.6], WHERE UNIT PEAK DISCHARGE = 2.5 CFS/AC. [1.3] THEREFORE: VOLUME 100 = 1374 CF [546]

DEVELOPED CONDITIONS (Includes Paved Parking) DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE

FOR STUDY AREA LAND TREATM'I Q Peak 1.56[0.38] 0.53[0.13] UNDEVELOPED 2.28[0.95] 0.78[0.28] LANDSCAPING/Depress **3.14**[1.71] 1.13[0.52] 0.05 Ac.(12%) GRAVEL & COMPACTED SOIL 4.70[3.14] 2.12[1.34] ROOF - PAVEMENT 0.23 Ac.(53%)

0.43 Ac. THEREFORE: E Weighted = 1.53 In.[0.87] &

> **VOLUME 100 = 2388 CF VOLUME 10 = 1358 CF** Q10 =1.0 CFS

DOWNSTREAM ANALYSIS

THE INCREASE OF RUNOFF RATE IS CONSIDERED MINIMAL FROM THE EXISTING CONDITIONS (0.5 CFS); THE DIFFERENCE WILL BE ROUTED INTO DEPRESSED LANDSCAPE AREA(S), THE REMAINING TWO—THIRDS OR 1 CFS WILL FREE— DISCHARGE TO THE STREET.

GRADING & DRAINAGE PLAN

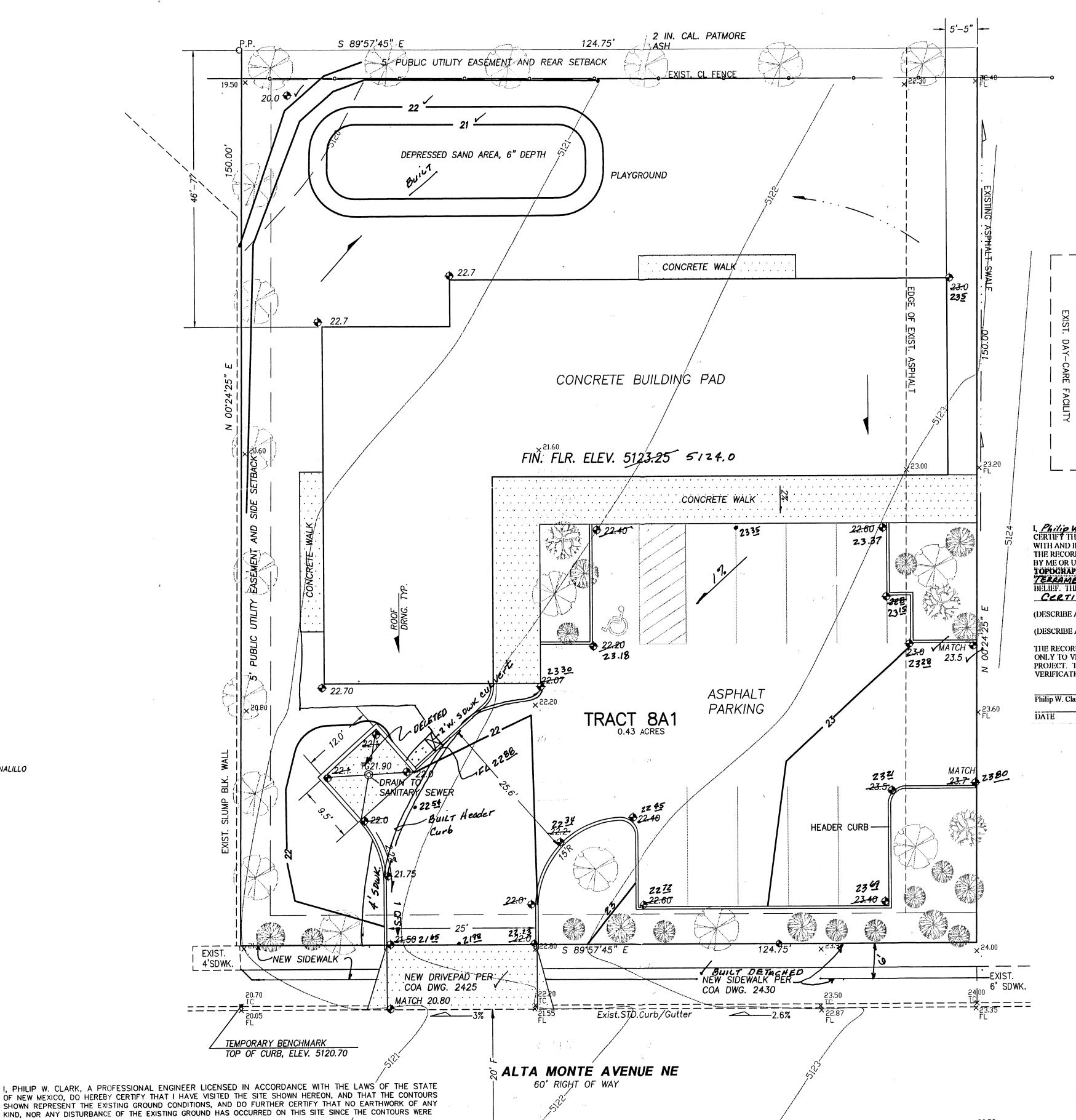
THE PROPOSED DAY-CARE EXPANSION PROJECT IS LOCATED IN THE CANDELARIA-125 COMMERCIAL AREA OF THE CITY OF ALBUQUERQUE. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE, NO.88-46, AND THE CITY STORM DRAINAGE ORDINANCE. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

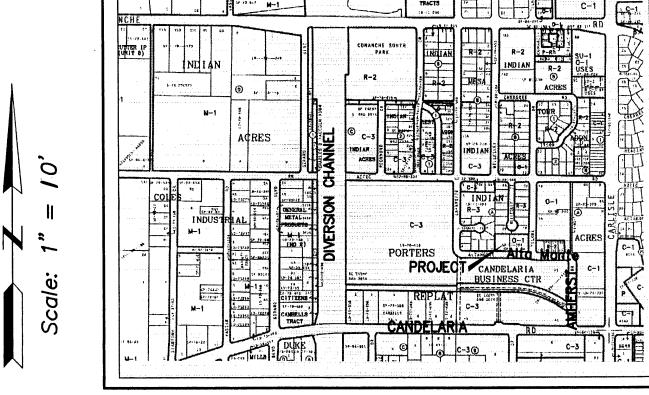
1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND

IMPROVEMENTS, AND EXISTING STREET. 2. PROPOSED IMPROVEMENTS: A 4000 SF BUILDING, PRIVATE ASPHALT DRIVEWAY AND PARKING. NEW GRADE ELEVATIONS, DRAINAGE, AND LANDSCAPING COMPLIANCE IMPROVEMENTS/UPGRADING. 3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS. 4. QUANTIFICATION OF DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS WHICH CONTRIBUTE TO THE

PRESENTLY, THE SITE IS ESTABLISHED AND USED AS A DEVELOPED ANCILLARY PLAYGROUND AREA FOR THE EXISTING FACILITY TO THE EAST. THE PLAYGROUND CURRENTLY IS 2/3 GRAVEL SURFACING LOCATED IN THE SOUTHERN AREA. THE SITE IS BOUNDED BY DEVELOPED MULTI-FAMILY ON THE NORTH /COMMERCIAL PROPERTY TO THE WEST. ALTA MONTE AVE. ON THE SOUTH IS A 40 FEET WIDE PAVED CITY MAINTAINED LOCAL STREET WITH SIDEWALK. THE SITE TERRAIN SLOPES FROM EAST TO NORTHWEST AT 5%.

THE SITE IS NOT WITHIN OR ADJACENT TO A DESIGNATED FEMA FLOOD HAZARD ZONE. DEVELOPED LOT RUNOFF WILL BE PERMITTED TO DRAIN TO THE STREET. FREE DISCHARGE OF PROJECT RUNOFF IS ACCEPTABLE SINCE DOWNSTREAM DRAINAGE FACILITIES EXIST. A PORTION OF SITE RUNOFF IS ROUTED THROUGH PROPOSED LANDSCAPING AS POINT RAINFALL.SEE CALCULATIONS.





VICINITY MAP ZONE G-16

NOTES

- 1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 7TH EDITION W/ UPDATES.
- 2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. ALL LANDSCAPING AREA SHALL BE SOFT—LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
- 5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
- 6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1011, NATIVE SEED MIX.
- 7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 3 HORIZONTAL TO 1 VERTICAL, 3:1.
- 8. NEW ASPHALT PAVEMENT SHALL CONSIST OF 3" ASPHALT CONCRETE OVER 6" AGGREGATE BASE COURSE ON 8" COMPACTED SUBGRADE, 95% PROCTOR, ASTM D-1557

DRAINAGE CERTIFICATION

I, Philip W. Clark NMPER 265 OF THE FIRM Clark Consulting Engirs , HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 3/3/07
THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION [+ AS SUPPLEMENTAL DATA TO THE ORIGINAL TOPOGRAPHIC SURVEY PREPARED BY POWER TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT

LEGEND

CERTIFICATE OF OCCUPANCY (DESCRIBE ANY EXCEPTIONS) DELETED REFUSE

(DESCRIBE ANY DEFICIENCIES)

VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Philip W. Clark, NMPE 10265



· AS. Built 24º Elevation EXIST. SPOT ELEVATION EXIST. CONTOUR

NEW SPOT ELEVATION NEW CONTOUR NEW SWALE

> FLOWLINE EXISTING POWER POLE

DRAINAGE DIRECTION, EXISTING

NATURAL GROUND, EXISTING REBAR AND CAP, EXISTING CHAIN LINK FENCE, EXISTING

NEW P.C.C., CONCRETE

TOP OF GRATE (W/ ELEV.)

PROJECT DATA

LEGAL DESCRIPTION

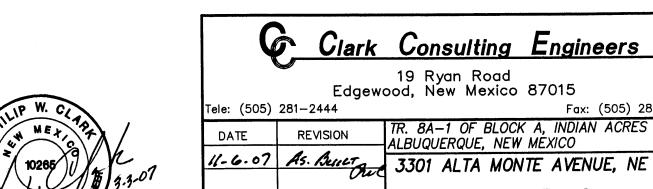
TRACT 8A-1, BLOCK A, INDIAN ACRES SUBDIVISION ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

EROJECT BENCHMARK -(NAVO 88)

TOP OF CURB AT THE PROJECTION OF PROJECT SOUTHWEST CORNER SEE PLAN, ELEVATION = 5120.70, AS TIED FROM ACS CONTROL MONUMENT F-225 (ELEV. 5102.67) LOCATED @ THE SW QUADRANT OF LAFAYETTE/AZVEG 1 NOV 0 7 2007

TOPOGRAPHIC DESIGN SURVEY DATA

COMPILED BY CLARK CONSULTING ENGINEERS, FEBRUARY 2007



Grading & Drainage

DESIGNED BY: PWC DRAWN BY: CCE JOB #: WESTER-THES CHECKED BY: PWC DATE: 3/61/07

Fax: (505) 281-2444

HYDROLOGY SECTION